

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



549466



(43) International Publication Date  
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number  
WO 2004/084019 A2

(51) International Patent Classification<sup>7</sup>:

G06F

(21) International Application Number:

PCT/US2004/007411

(22) International Filing Date: 11 March 2004 (11.03.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/454,582 14 March 2003 (14.03.2003) US

(71) Applicant (for all designated States except US): THOMSON LICENSING S.A. [FR/FR]; 46, Quai A. Le Gallo, F-92648 Boulogne (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ZHANG, Junbiao [CN/US]; 20 Jenna Drive, Bridgewater, NJ 08807 (US). MODY, Sachin [IN/US]; 708 White Pine Circle, Lawrenceville, NJ 08648 (US). MATHUR, Saurabh [IN/US]; 4923 Quail Ridge Drive, Plainsboro, NJ 08536 (US).

(74) Agents: TRIPOLI, Joseph et al.; c/o Thomson Licensing, Inc., Two Independence Way, Suite 200, Princeton, NJ 08540 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

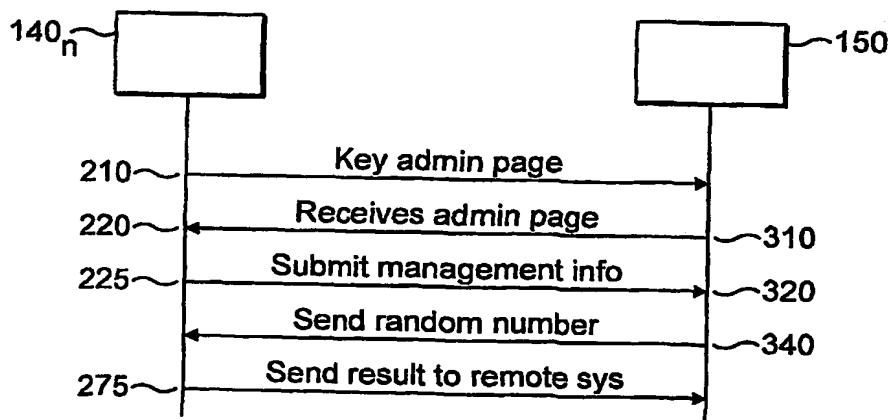
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SECURE WEB BROWSER BASED SYSTEM ADMINISTRATION FOR EMBEDDED PLATFORMS



(57) Abstract: The invention provides a method for a web browser based remote administration system to maintain its security by utilizing an ActiveX control or a plug-in, without relying on HTTPS protection to transact management information. The invention does not burden the embedded system and thus is ideally suited for the remote administration of embedded systems. The invention provides a method to calculate a security code base upon identical algorithms in the administrative system having the browser and the embedded system. When the browser-based

WO 2004/084019 A2

administrator submits the management information, an operator packages the control information as a string and invokes the security function in the plug-in with the string as a parameter. After the security function returns the result, the operator sends the form data together with a coded digest to the remote system. The digest may be embedded in the form data, for example, as a hidden field.